

Balloon Powered Boats

Need:

Balloon
Foam or Sponge
Rubber Band
Straw
Scissors
Tape
Somewhere to try your boats
or race them!
*Blow Up Pool, School Pool, Pond,
River, Lake*

GROUP BRAINSTORM.....

What is...

Newtons Second Law of Motion?

What is...

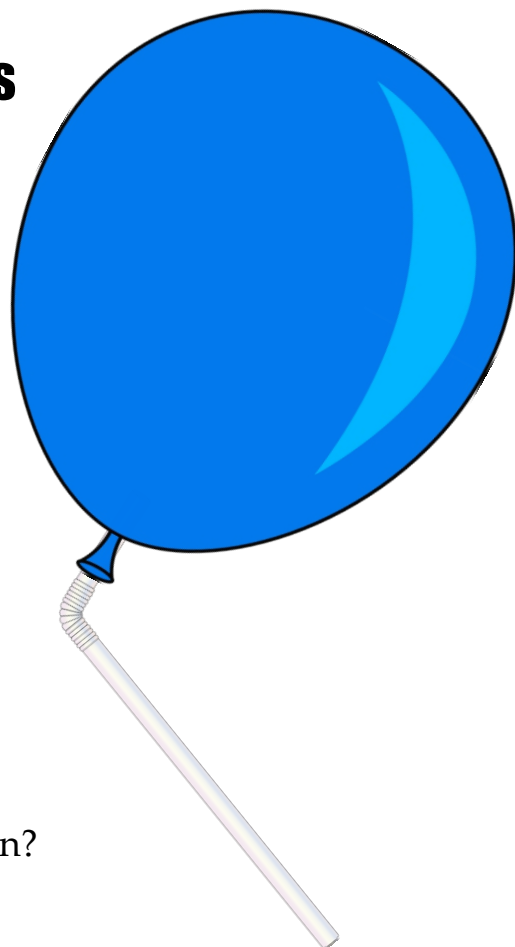
Acceleration?

What is...

Mass of an object?

What is...

$F=ma$



How to create your boat:

Cut your foam into a rectangle shape with one side either Shaped as a triangle or semi-circle.

Push Straw 1/2 way through the foam near the shaped end of the foam

Take the straw out and attach balloon.

Tape the balloon tightly to the straw, add the rubber band tightly to secure the balloon on straw and then tape again.

Push the straw with the balloon attached back through the foam, about half-way up the straw.

Using the straw inflate the balloon then bend the straw and put your finger over the hole to trap the air in.

Place boat into the water with the straw still bent and your finger still blocking any air from escaping.

Once in the water release finger and unbend straw to make the boat go.

GROUP WORKSHEET

